METHOD FOR CONCENTRIC ASSEMBLY OF STRUCTURAL ROTOR ENCLOSURE ON AN ELECTRICAL MACHINE ROTOR

ABSTRACT OF THE DISCLOSURE

A method is disclosed for fitting a rotor enclosure over at least one assembly of field windings mounted on a rotor core, said method comprising the steps: applying a force to elastically reduce a circumference of the at least one assembly of field windings mounted on the rotor core, where the reduction in circumference is greater than a circumference reduction due to just eliminating clearances between adjacent end-turns of windings; generating a clearance between the field windings and the rotor enclosure due to the application of the force; axially sliding the rotor enclosure over the at least one assembly of field windings while the circumference is reduced, and releasing the force to allow the circumference of the at least one assembly of field windings to expand and cause the enclosure to tightly fit on the at least one assembly of field windings.